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VI. *Some Corrections and Amendments by J. P. Breynius, M. D. F. R. S. concerning the Generation of the Insect called by him Coccus Radicum, in his Natural History thereof, printed in the Year 1731, an Account of which is given in these Philosophical Transactions, N^o 421, translated from the Latin by Mr. Zollman, F. R. S.*

IN the Natural History of the *Coccus Radicum* lately published by me, when after many repeated Observations and Experiments (especially those of Pag. 16 and 17) I gave an Account of the Generation and Metamorphosis of that Insect, which uses to stick to the Extremities of the Roots like a spherical Grain, and is commonly called *Coccus Polonicus*, I conjectured, that those small Flies which are often found among the *Coccus*, did not belong to the *Coccus*, but owed their Rise to small Worms of their own Kind, and were accidentally found among the *Coccus*; and as I could not find any Difference of Sex among the Worms of the *Coccus*, and following chiefly the Opinion of Signor *Cestoni* concerning the *Coccus* of the *Ilex* (however, as I freely own, not without some Repugnancy, and a fluctuating Mind) I ventured to assert, that our *Coccus* also is an Insect of the Hermaphrodite Kind, which brings forth Eggs of itself, and from itself, and propagates its Species with-
out

out being impregnated by the Concurrence of a Male.

But the Summer following I began to be sensible that my Opinion was erròneous, and about the End of it was quite convinced of my being in the wrong. This was Matter of Joy to me; for as the Discovery of a Truth hitherto unknown gives no small Pleasure to a Mind that loves Truth, so I am sure, nobody will deny, that this Pleasure will be still greater, if the Discovery is attended with an Acknowledgment and Redress of an Error one has been under before.

Having repeated my Observations with the greatest Exactness, and examined them in the strictest Manner, at last I found that the Metamorphosis, or Evokution, through which our *Coccus* passes, is as follows :

A. Of the Male.

B. Of the Female.

I. The Egg.

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The Eggs are laid about the End of *July*, or the Beginning of *August*.

II. A Worm with six Feet, no Wings.

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The Worms come out of the Eggs about the Middle of *August*, till the Beginning of *September*.

A. Of the Male.

B. Of the Female.

III. The less spherical Grain; that is, the *Coccus*, strictly so called, of the Bigness of a Grain of Poppy-Seed or Millet at farthest, gathered from the 9th of *June* till the Summer Solstice, with other bigger *Cocci*.

IV. The less Worm with six Feet, no Wings. It comes out of the above-mention'd *Coccus*, from the Summer Solstice 'till the Middle of *July*.

V. The Nymph which appears about the Beginning of *July* and the following Days.

VI. The Fly, the Male coming out from the Middle of *July* till the 24th of the same Month, which impregnates the Worm the Female, marked N° IV.

III. The larger spherical Grain; or the *Coccus* of the Bigness of a Vetch, or as large as that of white Pepper, which is gathered from the Middle of *June* till about the Middle of *July*.

IV. The larger Worm with 6 Feet, no Wings. That is to say, the Female coming out in the Beginning of *July*, but chiefly about the Middle of the said Month; which being impregnated by the Fly the Male N° VI, brings forth the Egg N° I.

This Inſect, under what Shape ſoever it appears, viz. either of a Grain, a Male Worm, a Nymph, a Fly, a Female Worm, or a Worm coming out of an Egg, always when preſſed and cruſhed, affords a Matter of a purple Colour, which however is obſerved to run moſt copious in the *Cocci* and the Worms, eſpecially the Female ones.

This may ſuffice at preſent for the Correſtion and Amendment of my ſhort Hiſtory of the *Coccus*, till theſe things may appear explained more at large, and illuſtrated with Figures, in the ſecond Part of it, which is to treat of the Chymical Examination of it, and of its uſe in Dying as well as Phyſick.

VII. *A Continuation of an Account of an Eſſay towards a Natural Hiſtory of Carolina and the Bahama Iſlands, by Mark Catesby, F. R. S. with ſome Extraſts out of the fifth Set. By Dr. Mortimer, R. S. Secret.*

THE Accounts of the foregoing Sets of this Work are to be found in N^o 415 and 420 of theſe *Transactions*: This fifth Set begins at Plate

81. *Pelicanus Americanus*. The Wood Pelican.

82. *Numenius albus*. The white Curlew.